

5-99013-SA

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FIG. 1

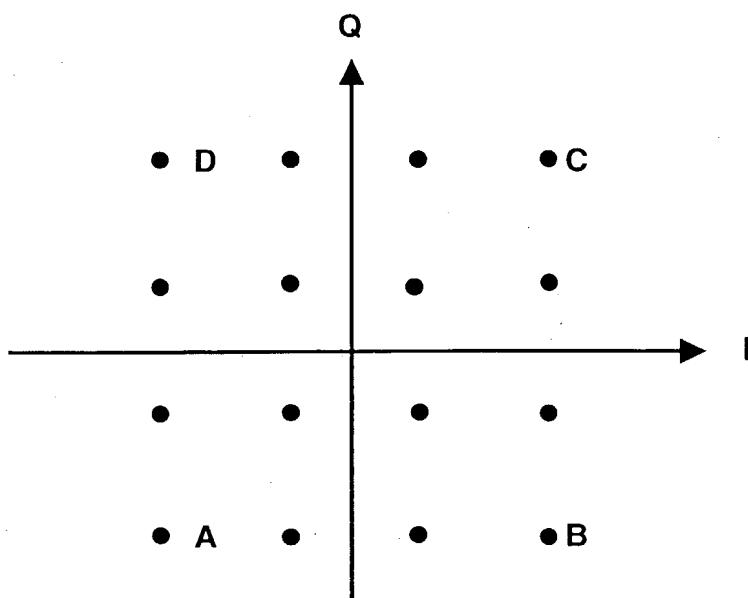
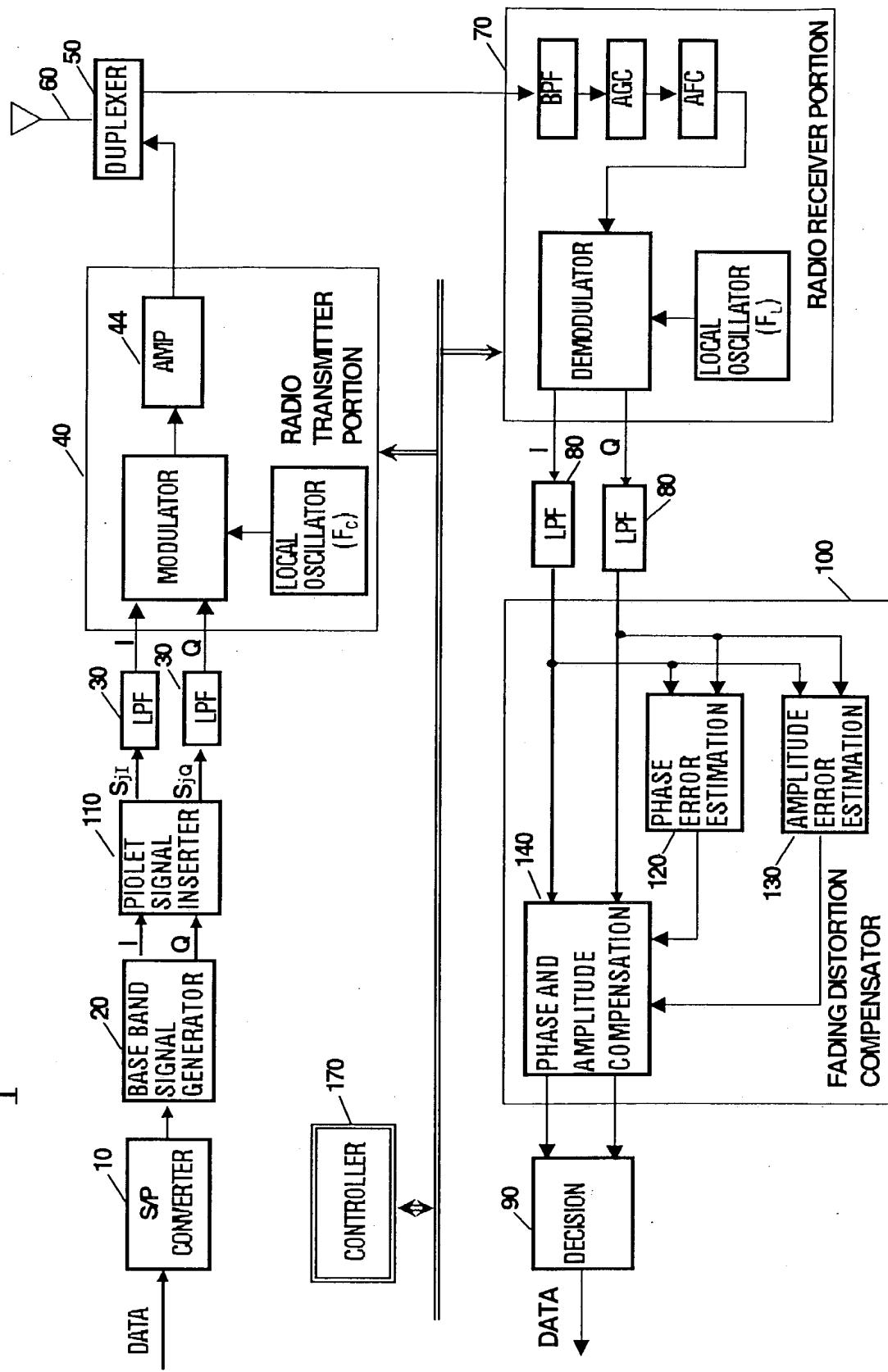


FIG. 2

1



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FIG. 3

16-APSK

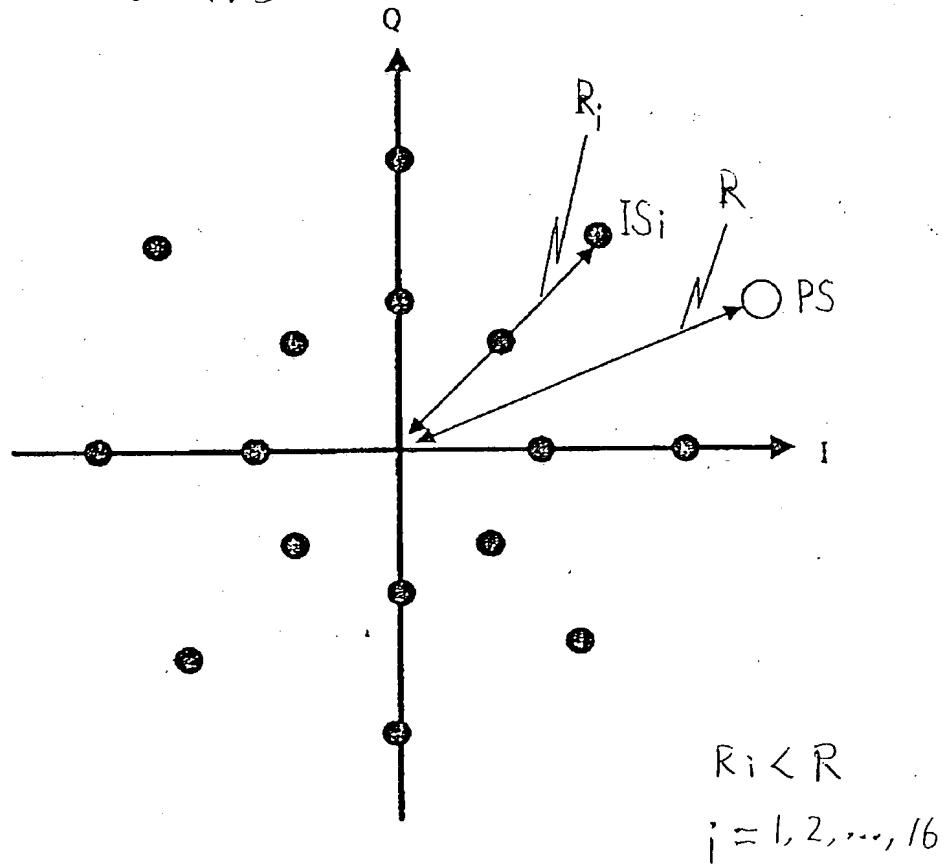
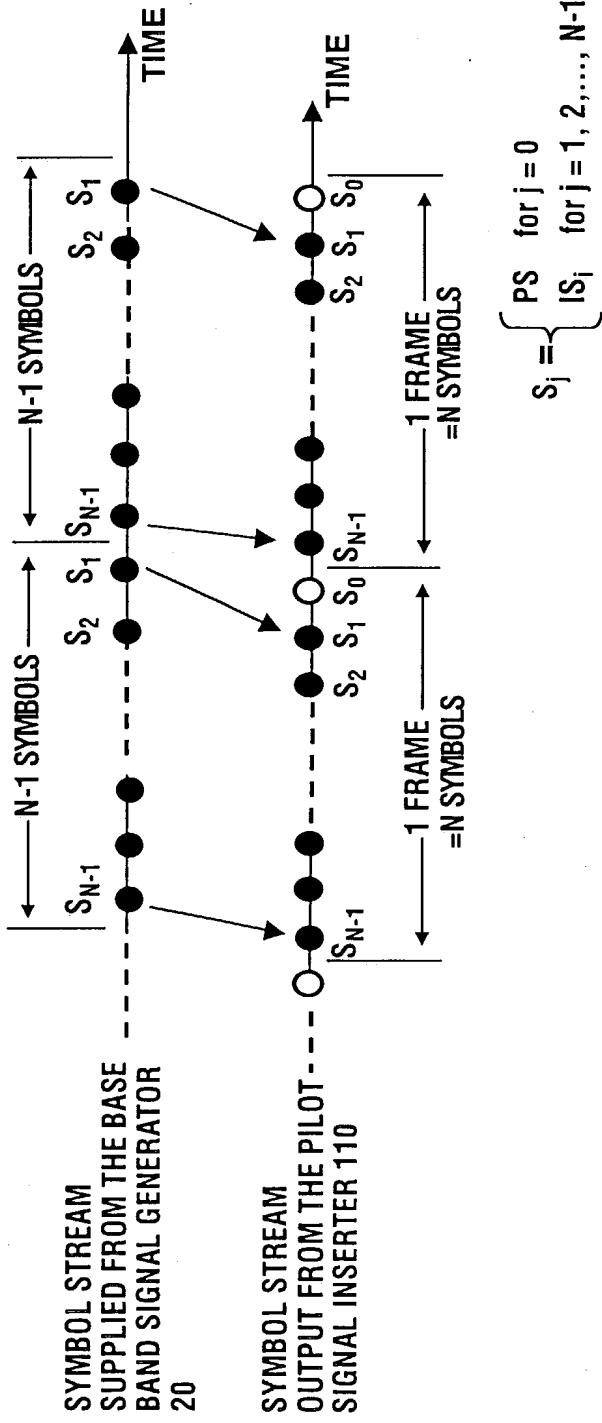


FIG. 4

OPERATION OF THE PILOT SIGNAL INSERTER 110

- : INFORMATION SYMBOL (ISi) $i = 1, 2, \dots, P$
- P: THE NUMBER OF POSSIBLE STATES
- : PILOT (or FRAME) SYMBOL (PS)



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FIG. 5

2^m -QAM

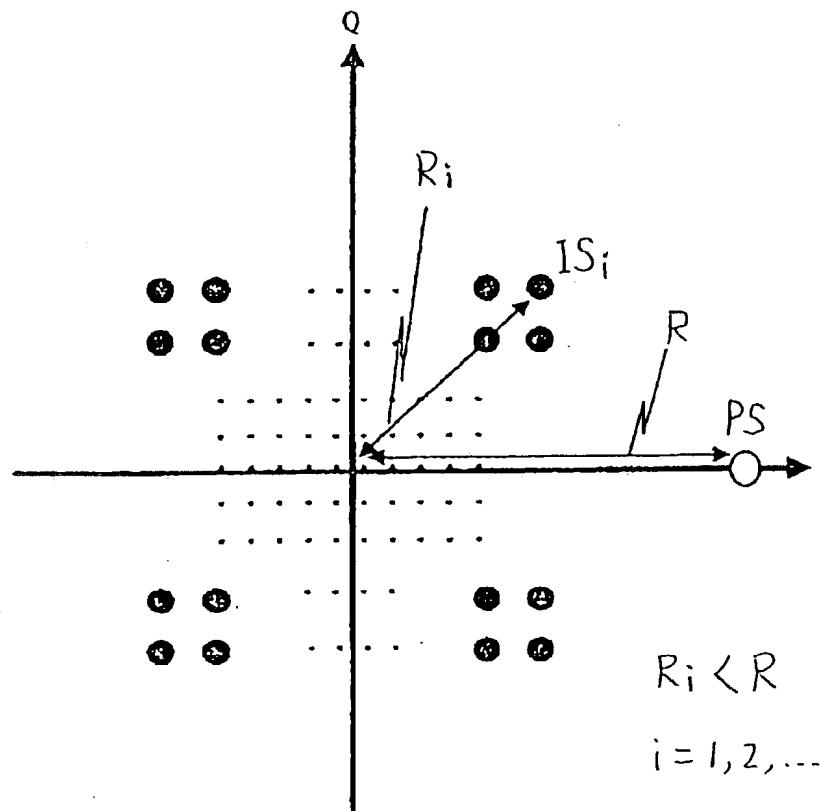
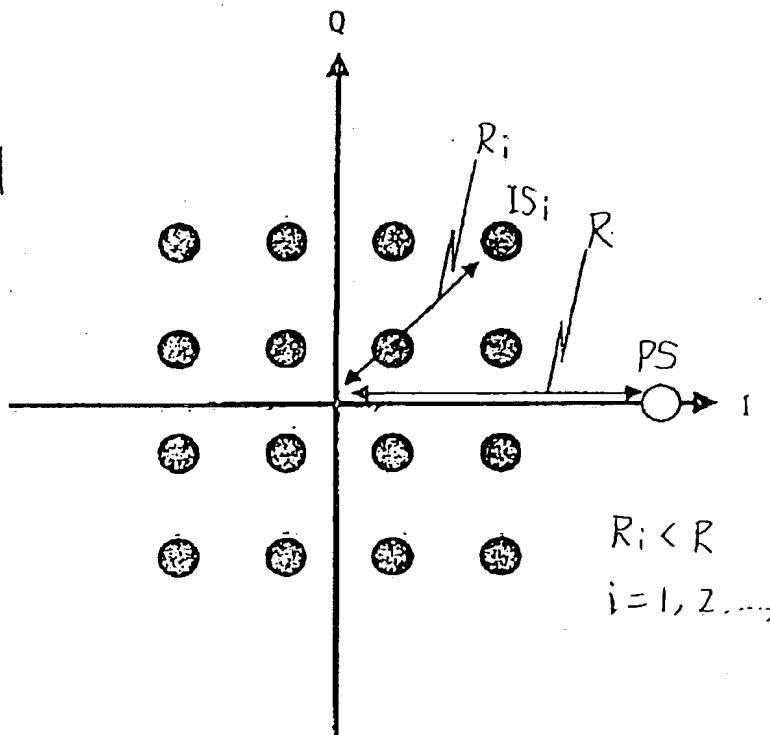


FIG. 6

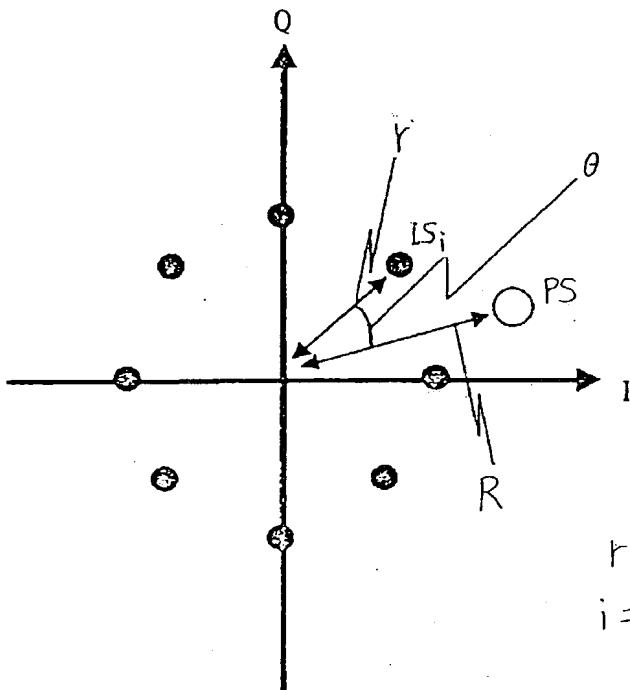
16-QAM



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FIG. 7

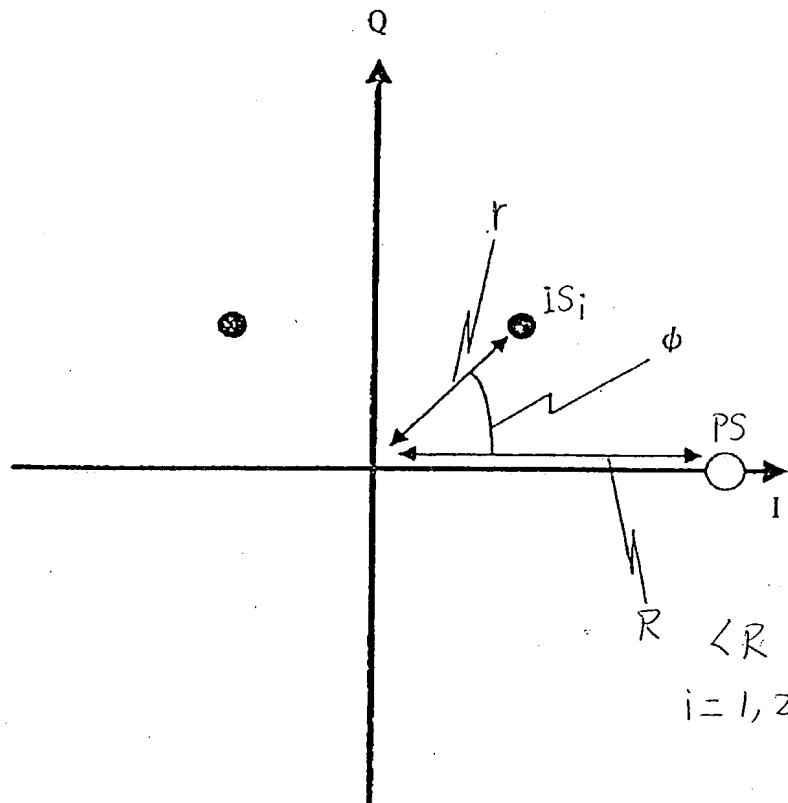
8- PSK



$$r < R \\ i = 1, 2, \dots, 8$$

FIG. 8

QPSK



$$r < R \\ i = 1, 2, 3, 4$$